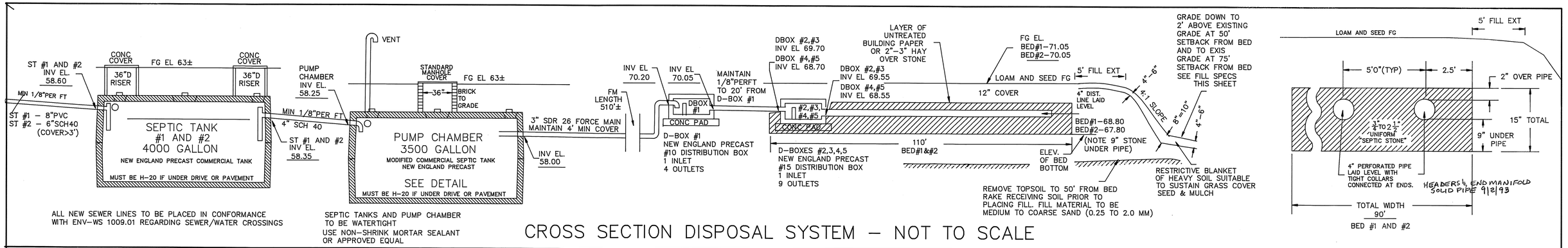

ST #1 AND #2 INV EL. 58.60
CONC COVER
36"D RISER
FG EL 63±
CONC COVER
36"D RISER
MIN 1/8"PER FT
ST #1 – 8"PVC
ST #2 – 6"SCH40 (COVER>3')
SEPTIC TANK #1 AND #2 4000 GALLON
NEW ENGLAND PRECAST COMMERCIAL TANK
MUST BE H-20 IF UNDER DRIVE OR PAVEMENT
PUMP CHAMBER INV EL. 58.25
MIN 1/8"PER FT
4" SCH 40
ST #1 AND #2 INV EL. 58.35
VENT
STANDARD MANHOLE COVER
FG EL 63±
36"
BRICK TO GRADE
PUMP CHAMBER 3500 GALLON
MODIFIED COMMERCIAL SEPTIC TANK
NEW ENGLAND PRECAST
SEE DETAIL
MUST BE H-20 IF UNDER DRIVE OR PAVEMENT
3" SDR 26 FORCE MAIN MAINTAIN 4' MIN COVER
INV EL. 58.00
FM LENGTH 510'±
INV EL 70.20
INV EL 70.05
DBOX #1
CONC PAD
D-BOX #1
NEW ENGLAND PRECAST
#10 DISTRIBUTION BOX
1 INLET
4 OUTLETS
MAINTAIN 1/8"PERFT TO 20' FROM D-BOX #1
DBOX #2,#3 INV EL 69.70
DBOX #4,#5 INV EL 68.70
DBOX #2,#3 INV EL 69.55
DBOX #4,#5 INV EL 68.55
#2,#3, #4,#5
CONC PAD
D-BOXES #2,3,4,5
NEW ENGLAND PRECAST
#15 DISTRIBUTION BOX
1 INLET
9 OUTLETS
110'
BED#1&#2
LAYER OF UNTREATED BUILDING PAPER OR 2"-3" HAY OVER STONE
FG EL. BED#1-71.05 BED#2-70.05
LOAM AND SEED FG
5' FILL EXT
12" COVER
4" DIST. LINE LAID LEVEL
BED#1-68.80
BED#2-67.80
(NOTE 9" STONE UNDER PIPE)
ELEV. OF BED BOTTOM
4"-6"
4:1 SLOPE
8"-10"
4"-6"
GRADE DOWN TO 2' ABOVE EXISTING GRADE AT 50' SETBACK FROM BED AND TO EXIS GRADE AT 75' SETBACK FROM BED SEE FILL SPECS THIS SHEET
RESTRICTIVE BLANKET OF HEAVY SOIL SUITABLE TO SUSTAIN GRASS COVER SEED & MULCH
REMOVE TOPSOIL TO 50' FROM BED RAKE RECEIVING SOIL PRIOR TO PLACING FILL. FILL MATERIAL TO BE MEDIUM TO COARSE SAND (0.25 TO 2.0 MM)
ALL NEW SEWER LINES TO BE PLACED IN CONFORMANCE WITH ENV-WS 1009.01 REGARDING SEWER/WATER CROSSINGS
SEPTIC TANKS AND PUMP CHAMBER TO BE WATERTIGHT
USE NON-SHRINK MORTAR SEALANT OR APPROVED EQUAL
LOAM AND SEED FG
5' FILL EXT
5'0"(TYP)
2.5'
2" OVER PIPE
15" TOTAL
9" UNDER PIPE
3/4" TO 2 1/2" UNIFORM "SEPTIC STONE"
4" PERFORATED PIPE LAID LEVEL WITH TIGHT COLLARS CONNECTED AT ENDS.
HEADERS & END MANIFOLD SOLID PIPE 9/2/93
TOTAL WIDTH 90'
BED #1 AND #2

CROSS SECTION DISPOSAL SYSTEM – NOT TO SCALE

SOIL CLASS: 538 SQUAMSCOTT

(SOURCE: USDA–SCS SOIL SURVEY)

BENCH MARKS: DATUM = APPROVAL #186166 PER PLAN SEE

#1	SET NAIL 16" PINE EL 65.50
#2	SET NAIL 18" PINE EL 66.34
#3	SET NAIL 15" PINE EL 64.79
#4	SET NAIL 30" PINE EL 63.55
#5	SET NAIL POLE #4 EL 63.99

DESIGN INTENT:

BED #1 TO BE 4' ABOVE EXIS GRADE AT EL 64.8
BED #2 TO BE 4' ABOVE EXIS GRADE AT EL 63.8
USING 50% RULE – SEE PLAN VIEW SHEET 2

SUITABLE REPLACEMENT AREA:

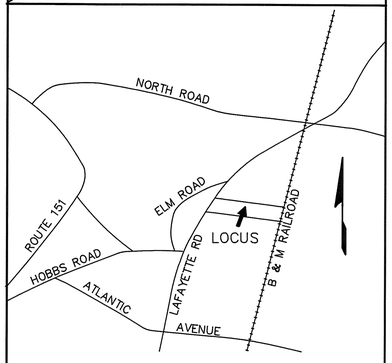
SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED.

LEGEND:

- 50 (50) — EXISTING CONTOUR / PROPOSED CONTOUR
- 50.0 — EXISTING SPOT ELEVATION
- (50.0) — PROPOSED SPOT ELEVATION

NOTES:

1. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE:
   RCRD PLAN #D19978, #D13594
   SKETCH PLAN OF LAND FOR ED LUCK IN NORTH HAMPTON, NH, SCALE 1"=100', MARCH 1984, PARKER SURVEY ASSOC., INC., EXETER AND SEABROOK, NH.
2. REFERENCE SUBDIVISION APPROVAL NUMBER 19667 FOR LAND ON WHICH PROPOSED SYSTEM IS LOCATED. PER OWNER, EXISTING MOBILE HOME SITES TO BE SERVICED BY PROPOSED SYSTEM PREDATE SUBDIVISION REGULATIONS.
3. THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL WASTE.
4. NO HYDRIC A SOILS WITHIN 75' OF PROP. SYSTEM.

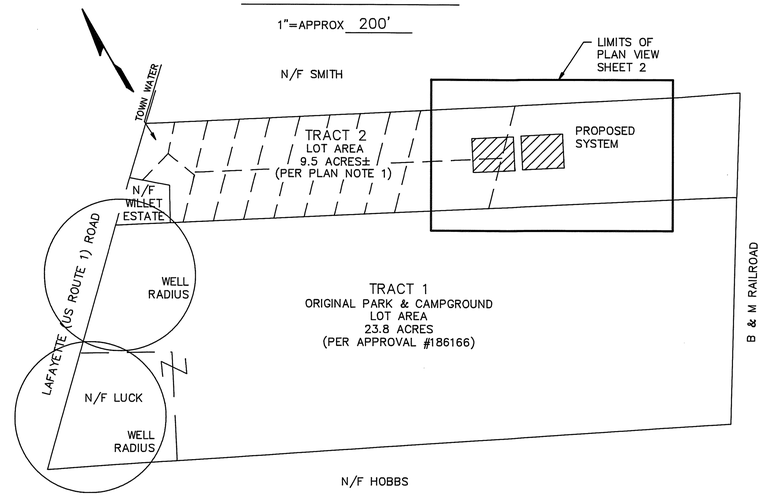


LOCUS MAP

NOT TO SCALE

PLOT PLAN

1"=APPROX 200'



CONSTRUCTION SPECIFICATIONS

1. FILL SPEC A – FOR AREA UNDER AND WITHIN 50' SETBACK FROM BED. REMOVE STUMPS AND TOPSOIL, RAKE RECEIVING SOIL PRIOR TO PLACING FILL.. FILL MATERIAL TO BE MED TO COARSE SAND PER ENV-WS 1021.03(a). TO BE PLACED AND COMPACTED IN 8" LAYERS.
2. FILL SPEC B – FOR FILLED AREA OUTSIDE OF 50' SETBACK AND WITHIN 75' SETBACK FROM BED.
   BLEND TO EXISTING GRADE WITH STRIPPED TOPSOIL OR OTHER GENERAL FILL SUITABLE TO SUSTAIN GROWTH.
   ENGINEER TO REVIEW MATERIAL AND STABLIZATION PROCEDURES PRIOR TO FILL PLACEMENT.
3. DIVERSION SWALES UPSLOPE FROM BED AND ADJACENT TO 75' SETBACK FROM BED TO BE LOAMED AND SEEDED. MAXIMUM FINISH C/L SLOPE TO BE 1% FOR AT LEAST 100' PRIOR TO OUTFALL AT ORIGINAL GROUND.
4. TEMPORARY EROSION CONTROL MEASURES TO INCLUDE STAKED HAY BALES * OR SILT FENCE INSTALLED PER MANUFACTURER'S SPECIFICATIONS TO BE PLACED 10' OFF 75' SETBACK LINE ALONG ENTIRE DOWNSLOPE END OF DISTURBED AREA (SEE PLAN VIEW SHEET 2).
5. ALL DISTURBED AREAS TO BE LOAMED & SEEDED IMMEDIATELY FOLLOWING FINISHED GRADING.
6. PER ENV-WS 1003.18, CONSTRUCTION MUST BE COMPLETED WITHIN 90 DAYS OF ISSUANCE OF FINAL WS&PCD APPROVAL. INSTALLER MUST APPLY FOR EXTENSION OF 90 DAY LIMIT IF CONSTRUCTION CANNOT BE COMPLETED IN THAT TIME.

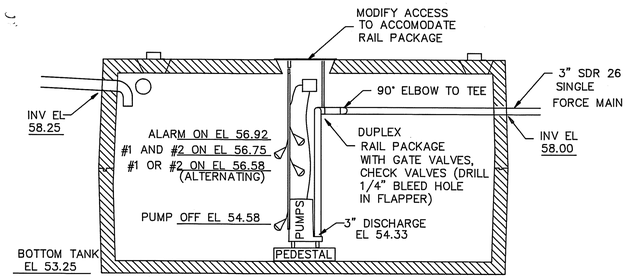
* IF HAY BALES ARE USED, INSTALLATION TO BE AS FOLLOWS:
(a) TO BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING ADJACENT BALES.
(b) TO BE EMBEDDED AT LEAST 4" IN SOIL
(c) TO BE ANCHORED WITH 2 STAKES WITH FIRST STAKE ANGLED TOWARD ADJACENT BALES TO FORCE BALES TOGETHER
(d) TO BE MAINTAINED WITH FREQUENT INSPECTION AND REPAIR AS NEEDED UNTIL ALL DISTURBED AREAS ARE STABILIZED.

SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS

ENV-WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. (b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.
ENV-WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.
ENV-WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.
ENV-WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD.
ENV-WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.

DETAIL PUMP CHAMBER

NOT TO SCALE


MODIFY ACCESS TO ACCOMODATE RAIL PACKAGE
3" SDR 26 SINGLE FORCE MAIN
90° ELBOW TO TEE
INV EL 58.25
INV EL 58.00
ALARM ON EL 56.92
#1 AND #2 ON EL 56.75
#1 OR #2 ON EL 56.58 (ALTERNATING)
DUPLEX RAIL PACKAGE WITH GATE VALVES, CHECK VALVES (DRILL 1/4" BLEED HOLE IN FLAPPER)
PUMP OFF EL 54.58
PUMPS
3" DISCHARGE EL 54.33
PEDESTAL
BOTTOM TANK EL 53.25

PUMP SPECIFICATIONS

USE TWO PUMPS – HYDROMATIC SPD100H2 (1HP)

STATIC LIFT = 15.6 SAY 16 FEET
F.M. LENGTH = 510'± + 40'± (FITTINGS) = USE 550'
WITH FRICTION LOSS BASED ON SDR 26 PIPE (C=150)
PUMPS SPECIFIED WILL DELIVER 108±GPM @ 26' TDH
GALLONS PER CYCLE = 1730 GAL±
TOTAL DESIGN LOADING = 16200/1730 = 9.4 CYCLES PER DAY
PUMP RUNNING TIME = 1730 GAL / 108 GPM = 16± MIN PER CYCLE

ACCESSORIES

PRODUCT NUMBERS ARE REPCO (R.E PRESCOTT CO, EXETER)
SUBSTITUTIONS MUST BE APPROVED BY MANUFACTURER
- CONTROL BOX #102090
- QDC RAIL PACKAGE
- HIGH WATER ALARM #102110 (BELL & LIGHT)
- FOUR #102170 MERCURY FLOATS
- TWO #102180 NEMA 4X JUNCTION BOXES

SEPTIC TANK DATA

(INFORMATION RE EXISTING SEPTIC TANKS IS PER OWNER). ALL SEWAGE FROM EXISTING MOBILE HOMES IS TREATED BY SEPTIC TANKS AS OUTLINED BELOW. MOST TANKS HANDLE MORE THAN 1 MOBILE HOME. ALL TANKS ARE 1000 GALLON EXCEPT FOR 1 5000 GALLON TANK LOCATED NEAR MH #25. MOBILE HOMES #1–6 ARE SERVICED BY EXISTING SYSTEMS AT THE FRONT OF THE PROPERTY AND ARE NOT INCLUDED IN DESIGN LOADING. MOBILE HOMES #35, 36, AND 37 ARE CURRENTLY ON THEIR OWN SYSTEMS, BUT ARE INCLUDED IN DESIGN LOADING.

SEWER LINE #1 (MOBILE HOMES #7–23,25,27,29,31,33,35) = 23 TOTAL
TANK CAPACITY REQUIRED – 2 BEDROOMS @ 300 GPD X 23 = 6900 GPD
6900 X 0.75 + 1125 = 6300 GAL CAPACITY REQUIRED
EXISTING TOTAL CAPACITY IN PLACE = 9000 GAL
PROPOSAL ADDS ONE 4,000 GAL SEPTIC TANK AT END OF SEWER LINE #1
SEWER LINE #2 (MOBILE HOMES #24,26,28,30,32,34,36–60) = 31 TOTAL
TANK CAPACITY REQUIRED – 2 BEDROOMS @ 300 GPD X 31 = 9300 GPD
9300 X 0.75 + 1125 = 8100 GAL CAPACITY REQUIRED
EXISTING TOTAL CAPACITY IN PLACE = 15000 GAL
PROPOSAL ADDS ONE 4000 GAL SEPTIC TANK AT END OF SEWER LINE #2

NOTE: ALL EXISTING TANKS TO BE INSPECTED, PUMPED, AND REPAIRED AS NEEDED BEFORE CONNECTING TO NEW SYSTEM.

TEST PIT DATA

DATE: DECEMBER 22, 1992

TEST PIT ELEVATION = 66.0

0–5" VERY DARK BROWN (10YR 2/2) LOAM AND ROOT MAT
5–10" GRAYISH BROWN (2.5Y 5/2) SILTY FINE SANDY LOAM
10"–60" LIGHT OLIVE BROWN (2.5Y 5/2) SILTY FINE SAND HEAVILY MOTTLED.
OBSERVED WATER @ 10", NO REFUSAL
ESHWT @ 0–5", DESIGN ESHWT @ 0"
SHOVEL HOLES THROUGHOUT AREA OF PROPOSED SYSTEM SHOW SIMILAR PROFILES TO 24" (EXCEPT ON KNOLL – SEE PLAN VIEW). ADDITIONAL TEST PITS DEEMED UNNECESSARY AS PROPOSED SYSTEM IS DESIGNED ON NO EFFECTIVE EXISTING RECEIVING LAYER.

PERC TEST DATA

PERCOLATION RATE COULD NOT BE OBTAINED IN SATURATED SOIL. DESIGN PERC RATE = 2 MIN/IN BASED ON PERMEABILITY OF PROPOSED MEDIUM TO COARSE SAND RECEIVING LAYER.

DESIGN LOADING

PROPOSED SYSTEM TO SERVICE 54 2–BEDROOM MOBILE HOMES AT 300 GPD EACH FOR TOTAL DESIGN FLOW OF 16,200 GPD.
AREA REQUIRED @ 2 MIN/IN = 125 X 162 = 20250 TOTAL SF
2 90' X 110' LEACH FIELDS = 9900SF X 2 = 19800 SF PROPOSED.
(METERED FLOWS FROM SIMILAR MOBILE HOME PARK IN AREA INDICATE ACTUAL AVERAGE FLOW PER UNIT OF 200 GPD±).
VOLUME OF STONE REQUIRED UNDER BED (6"DEPTH) = 10125 CU FT.
VOLUME OF STONE PROVIDED (9" DEPTH) = 15188 CU FT.

PROPOSED REPLACEMENT

SEPTIC SYSTEM PLAN

LOCUS: SHEL–AL MOBILE HOME PARK
NORTH HAMPTON, NH

OWNER: LUCK ENTERPRISES, INC.
PO BOX 700
NORTH HAMPTON, NH 03862

NEW HAMPSHIRE Designer of Subsurface Disposal Systems Peter S. Blaisdell No. 341 Water Supply & Pollution Control

THE STATE OF NEW HAMPSHIRE PETER S. BLAISDELL No. 1949 LICENSED PROFESSIONAL ENGINEER

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03842

DATE: MARCH 10, 1993

APPROVAL: #197433

166 SHEET 1 OF 3 SHEETS

N/F R. SMITH

NORTH OF WOODS ROAD = SEASONAL WET

WOODS ROAD

WOODS ROAD

BM #1
SET NAIL
18" PINE
EL 66.34

PROPOSED SWALE

BLEND TO EXISTING GRADE AT 75' SETBACK FROM BED

APPROX PL 1573±

JURISDICTIONAL WETLAND BOUNDARY

BM #2
SET NAIL
15" PINE
EL 64.79

SEE FILL SPEC B
SHEET 1

MAINTAIN 2' ABOVE EXIS GRADE AT 50' SETBACK FROM BED

SEE FILL SPEC A
SHEET 1

TEMPORARY
EROSION
CONTROL
BARRIER
SEE EROSION
CONTROL MEASURES
SHEET 1

SOIL
CLASS
538
HYDRIC B

TP

JURISDICTIONAL WETLAND BOUNDARY

EXIS
MOBILE
HOME
SITE#19
RCRD PLAN
#D19978

100'+ TO
EXIS SYSTEM
PER WS&PCD
APPROVAL
#114955

SHED
TO BE
MOVED

BED #1

BED #2

60% OF BED AREA DOWNSLOPE

60%+ OF BED AREA DOWNSLOPE

BED BOTTOM EL 68.80
FINISH GRADE EL 71.05

TO BE LEVEL

BED BOTTOM EL 67.80
FINISH GRADE EL 70.05

TO BE LEVEL

HOLD ALL 1/4"/FT PIPES FOR MIN 20' FROM DBOX #1

ELEV 63.8 = 4' BELOW BED BOTTOM

ELEVATION 64.8 = 4' BELOW BED BOTTOM

EXISTING
KNOLL

BM #3
SET NAIL
30" PINE
EL 63.55

TOTAL LOT AREA
9.5 ACRES±
SEE PLOT PLAN
SHEET 1

EXIS
MOBILE
HOME
SITE #18
RCRD PLAN
#D19978

100'+ TO
EXIS SYSTEM
PER WS&PCD
APPROVAL
#114700

SHED
TO BE MOVED

BM #4
SET NAIL
16" PINE
EL 65.50

3" SDR 26 F.M.

SEASONAL WET AREA

SOIL
CLASS
538
HYDRIC B

TEMPORARY
EROSION
CONTROL
BARRIER
SEE EROSION
CONTROL MEASURES
SHEET 1

NEW HAMPSHIRE
Designer
of
Subsurface Disposal
Systems
* * *
Peter S. Blaisdell
No. 341
Water Supply & Pollution Control

THE STATE OF NEW HAMPSHIRE
PETER
S.
BLAISDELL
No. 1949
LICENSED
PROFESSIONAL ENGINEER

MAINTAIN 2' ABOVE EXIS GRADE AT 50' SETBACK FROM BED

SEE FILL SPEC A
SHEET 1

SEE FILL SPEC B
SHEET 1

BLEND TO EXISTING GRADE AT 75' SETBACK FROM BED

PROPOSED SWALE

JURISDICTIONAL WETLAND BOUNDARY

APPROX PL 1500±

APPROX EXIS SEWER – LINE #1 (SEE NOTE A)

(TO BE DISCONTINUED)

PROPOSED 3" SDR 26 F.M.

PROPOSED SEWER LINE #1

AMENDED F.M.

PROPOSED 8"PVC

PROPOSED 3500 GAL PUMP CHAMBER

PROPOSED 4,000 GAL SEPTIC TANKS

* = AMENDED LOCATION

BM #5
SET NAIL
POLE #4
EL 63.99

PROPOSED SEWER LINE #2

SEE NOTE A

SEE NOTE A

GARAGE

29

31

35

PROPOSED REPLACEMENT SEPTIC SYSTEM
FOR
LUCK ENTERPRISES, INC.
IN
NORTH HAMPTON, NH

SCALE:1"=20' MARCH 1993 AMENDED * APRIL 12, 1993 SHEET 2 ONLY AMENDED 10/10/93 TANK LOCATIONS ONLY (SHEET 2 ONLY)

PREPARED BY
STOCKTON SERVICES
HAMPTON, NH
SHEET 2 OF 3 SHEETS

NOTE A: LOCATION OF EXIS SEWER LINES & TANKS IS ESTIMATED. TO BE VERIFIED AS NEEDED AT TIME OF INSTALLATION.

* AMENDED TO SHOW WETLANDS DELINEATION BY WETLANDS PRESERVATION INC., TO REFINE EXISTING TOPOGRAPHY AND ADJUST PROPOSED CONTOURS ACCORDINGLY

APPROVAL #197433

N/F R. SMITH

TRACT 2

LIMIT OF PLAN VIEW SEE SHEET 1

REFERENCE SUBDIVISION APPROVAL #19667

PROPOSED REPLACEMENT SYSTEM

N/F WILLET ESTATE

LAFAYETTE ROAD

EXISTING COMMUNITY WELL

200'

WATER STORAGE

EXISTING 3-WAY HOOKUP AREA 55 SITES

BATH HOUSE#2

TRACT 1
ORIGINAL PARK & CAMPGROUND

AREA OF EXISTING FAILED SYSTEM

B & M RAILROAD

EXISTING SYSTEM FOR BATH HOUSE #2

REFERENCE NHWS&PCD APPROVAL #186166

BRIDGE

BATH HOUSE #1

EXISTING TENTING AREA 135 SITES

OVERFLOW LEACHING AREA FOR BATH HOUSE #1

EXISTING LEACH FIELD FOR BATH HOUSE #1

EXISTING COMMUNITY WELL

N/F E. & D. LUCK

N/F HOBBS 1989 TRUST

NOTE: THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY. LOCATIONS ARE APPROXIMATE (SOLID LINES) OR CONCEPTUAL (DASHED LINES) AND ARE INTENDED ONLY TO VERIFY LACK OF SUITABLE ON-SITE LOCATION FOR REPLACEMENT SYSTEM.

PROPOSED REPLACEMENT SEPTIC SYSTEM
FOR
LUCK ENTERPRISES, INC.
IN
NORTH HAMPTON, NH
SCALE: 1"=APPROX 60' MARCH 1993
PREPARED BY
STOCKTON SERVICES
HAMPTON, NH

APPROVAL #197433

166 SHEET 3 OF 3